AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (previously presented) A printing unit cylinder:

a printing cylinder;

at least one printing area or printing cylinder;

a plurality of ink supply members for supplying inks different, in kinds, from each other to the printing area or printing cylinder;

a doctor blade provided on the printing cylinder immediately downstream with respect to the ink supply members, for wiping an excessive ink;

a plurality of detecting systems, each detecting an amount of the corresponding ink accumulated on the printing area of the printing cylinder; and

a control system for controlling the plurality of ink supply members to regulate an amount of ink supplied by each of the plurality of ink supply members so as to bring the amount of the corresponding ink accumulated into agreement with a predetermined value established for the ink detected.

wherein each of the plurality of detecting systems includes a displacement sensor between the ink supply members and the doctor blade for detecting a surface portion of the accumulated ink on the printing cylinder.

2. (previously presented) The printing unit according to claim 1, wherein the printing area is a part of a gravure printing cylinder immediately upstream the doctor blade wiping an excess ink off the gravure printing cylinder.

3. (previously presented) The printing unit according to claim 1, wherein the printing area is a part of an offset gravure printing cylinder immediately upstream the doctor blade wiping an excess ink off the offset gravure printing cylinder.

4. (cancelled).

5. (cancelled).

6. (cancelled).

7. (previously presented) The printing unit according to claim 1, wherein each of the plurality of ink supply members includes an ink container, a pump to deliver the ink out of the container, and a nozzle to eject the ink to the printing area.

8. (cancelled).

9. (previously presented) The printing unit according to claim 1, wherein the control system controls a flow rate of the ink delivered from the pump of each of the plurality of ink supply members to the nozzle so that the surface position of the ink is brought into agreement with a predetermined level.

10. (cancelled).

11. (cancelled).

12. (cancelled).

13. (cancelled).

14. (cancelled).

15. (cancelled).

16. (cancelled).